



United States Department of the Interior

BUREAU OF LAND MANAGEMENT OIL SHALE PROJECT OFFICE

P.O. Box 580
Grand Junction, CO 81501

IN REPLY REFER TO:

U-25918

U-26194

3500

February 8, 1984

Memorandum

To: Oil Shale Project Manager

From: Glen A. Miller, Hydrologist

Subject: Tract U-a/U-b Inspection - Hydrology

Personnel Present: Mark Vanderwoude - WROSC
Glen A. Miller - OSPO

RECEIVED
FEB 27 1984

DIVISION OF
OIL, GAS & MINING

ACTIVITIES

Decline face near bottom of Birds Nest Zone. Some drill holes prior to grouting reportedly produced 100-150 gpm inflow. Grouting has reduced current inflow to less than 1 gpm. Grout has effectively filled many strata controlled vugs in back and ribs, as well as near-vertical joints.

Sampled low inflows of water at 4 stations, measured EC on samples in office on 2-9-84, results below:

<u>Time Station</u>	<u>Description of Source</u>	<u>EC, Uhmhos at 25°C</u>
1115 800	3 feet below back, in vug in left rib, pipe outlet, about 1/4-1/2 gpm, colored from grout	7,300
1125 734	Dripping 1/10-1/20 gpm from roof bolt, 3 feet from left rib, slight color from grout.	2,560
1145 660	3 feet from left rib in back, flow about 1/20-1/50 gpm from roof bolt hole	2,450
1150 250	1/20-1/50 gpm from mid-drift in back, in Uinta	1,900

Water quality in Bird's Nest flows above may be affected by both grout and by pre-grout testing using White River Water. Will test grout for EC effects, re-sample in same sites in future. Above sample points provide potential sites to sample across Bird's Nest zone. Rip-rap along White River appears completed as planned. Snow-ice cover on much of river area.

John A. Miller

xc: J. Godlove, Ua/Ub
W. Hawes, Ua/Ub
J. Goff, Ua/Ub
DM, Vernal
DM, Craig
→ T. Portal, UDOGM